RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10/725,475
Source:	IFWO
Date Processed by STIC:	10/18/04

ENTERED



IFWO

RAW SEQUENCE LISTING

DATE: 10/18/2004

PATENT APPLICATION: US/10/725,475

TIME: 13:37:45

Input Set : A:\78031566.app

Output Set: N:\CRF4\10182004\J725475.raw

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3 <110> APPLICANT: ZOLLER, MARK
              LI, XIAODONG
      4
              STASZEWSKI, LENA
      6
              O'CONNELL, SHAWN
      7
              ZOZULYA, SERGEY
              ADLER, JON
      8
      9
              XU, HONG
              ECHEVERRI, FERNANDO
     10
     12 <120> TITLE OF INVENTION: T1R HETERO-OLIGOMERIC TASTE RECEPTORS AND CELL LINES
     13
              THAT EXPRESS SAID RECEPTORS AND USE THEREOF FOR
              IDENTIFICATION OF TASTE COMPOUNDS
     16 <130> FILE REFERENCE: 078003-0291566
C--> 18 <140> CURRENT APPLICATION NUMBER: US/10/725,475
C--> 19 <141> CURRENT FILING DATE: 2003-12-03
     21 <150> PRIOR APPLICATION NUMBER: 60/300,434
     22 <151> PRIOR FILING DATE: 2001-06-26
     24 <150> PRIOR APPLICATION NUMBER: 60/304,749
     25 <151> PRIOR FILING DATE: 2001-07-13
     27 <150> PRIOR APPLICATION NUMBER: 60/310,493
     28 <151> PRIOR FILING DATE: 2001-08-08
     30 <150> PRIOR APPLICATION NUMBER: 60/331,771
     31 <151> PRIOR FILING DATE: 2001-11-21
     33 <150> PRIOR APPLICATION NUMBER: 60/339,472
     34 <151> PRIOR FILING DATE: 2001-12-14
     36 <150> PRIOR APPLICATION NUMBER: 60/372,090
     37 <151> PRIOR FILING DATE: 2002-04-15
    39 <150> PRIOR APPLICATION NUMBER: 60/374,143
     40 <151> PRIOR FILING DATE: 2002-04-22
     42 <160> NUMBER OF SEQ ID NOS: 19
     44 <170> SOFTWARE: PatentIn Ver. 2.1
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    60 <211> LENGTH: 14
    61 <212> TYPE: PRT
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DATE: 10/18/2004

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Input Set : A:\78031566.app Output Set: N:\CRF4\10182004\J725475.raw 64 <220> FEATURE: 65 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence 68 <220> FEATURE: 69 <221> NAME/KEY: MOD_RES 70 <222> LOCATION: (1) 71 <223> OTHER INFORMATION: Thr or Arq 73 <220> FEATURE: 74 <221> NAME/KEY: MOD_RES 75 <222> LOCATION: (3) 76 <223> OTHER INFORMATION: Phe or Leu 78 <220> FEATURE: 79 <221> NAME/KEY: MOD_RES 80 <222> LOCATION: (4) 81 <223> OTHER INFORMATION: Arg, Gln or Pro 83 <220> FEATURE: 84 <221> NAME/KEY: MOD_RES 85 <222> LOCATION: (6) 86 <223> OTHER INFORMATION: Arg or Thr 88 <220> FEATURE: 89 <221> NAME/KEY: MOD_RES 90 <222> LOCATION: (7) 91 <223> OTHER INFORMATION: Ser, Pro or Val 93 <220> FEATURE: 94 <221> NAME/KEY: MOD RES 95 <222> LOCATION: (8) 96 <223> OTHER INFORMATION: Val, Glu, Arg, Lys or Thr 98 <220> FEATURE: 99 <221> NAME/KEY: MOD RES 100 <222> LOCATION: (11) 101 <223> OTHER INFORMATION: Ala or Glu 103 <220> FEATURE: 104 <221> NAME/KEY: MOD RES 105 <222> LOCATION: (12) 106 <223> OTHER INFORMATION: Trp or Leu 108 <220> FEATURE: 109 <221> NAME/KEY: MOD RES 110 <222> LOCATION: (13) 111 <223> OTHER INFORMATION: Arg, His or Gly 113 <400> SEQUENCE: 2 W--> 114 Xaa Cys Xaa Xaa Arg Xaa Xaa Xaa Phe Leu Xaa Xaa Xaa Glu 115 1 118 <210> SEQ ID NO: 3 119 <211> LENGTH: 15 120 <212> TYPE: PRT 121 <213> ORGANISM: Artificial Sequence 123 <220> FEATURE: 124 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus sequence

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    130 <223> OTHER INFORMATION: Leu or Gln
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    133 <221> NAME/KEY: MOD_RES
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    135 <223> OTHER INFORMATION: Glu, Gly or Thr
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    140 <223> OTHER INFORMATION: Asn, Arg or Cys
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   164 <222> LOCATION: (13)
   165 <223> OTHER INFORMATION: Phe or Leu
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   170 <223> OTHER INFORMATION: Ala or Ser
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   174 <222> LOCATION: (15)
   175 <223> OTHER INFORMATION: Met or Leu
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   179 1 5
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   185 <213> ORGANISM: Rattus sp.
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RAW SEQUENCE LISTING DATE: 10/18/2004 PATENT APPLICATION: US/10/725,475 TIME: 13:37:45

Input Set : A:\78031566.app

Output Set: N:\CRF4\10182004\J725475.raw

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189				7	5	_	_	_		10	_				15	
	Leu	Gly	Met		Ser	Ser	Leu	Cys		Ser	Gln	Gln	Phe	Lys	Ala	Gln
192	_			20					25			•		30		
	Gly	Asp		Ile	Leu	Gly	Gly	Leu	Phe	Pro	Leu	Gly	Thr	Thr	Glu	Glu
195			35					40					45			
197	Ala	Thr	Leu	Asn	Gln	Arg	Thr	Gln	Pro	Asn	Gly	Ile	Leu	Cys	Thr	Arg
198		50					55					60				
200	Phe	Ser	Pro	Leu	Gly	Leu	Phe	Leu	Ala	Met	Ala	Met	Lys	Met	Ala	Val
201	65					70					75					80
203	Glu	Glu	Ile	Asn	Asn	Gly	Ser	Ala	Leu	Leu	Pro	Gly	Leu	Arg	Leu	Gly
204					85					90					95	
206	Tyr	Asp	Leu	Phe	Asp	Thr	Cys	Ser	Glu	Pro	Val	Val	Thr	Met	Lys	Pro
207				100					105					110		
209	Ser	Leu	Met	Phe	Met	Ala	Lys	Val	Gly	Ser	Gln	Ser	Ile	Ala	Ala	Tyr
210			115					120					125			_
212	Cys	Asn	Tyr	Thr	Gln	Tyr	Gln	Pro	Arg	Val	Leu	Ala	Val	Ile	Gly	Pro
213		130					135					140			_	
215	His	Ser	Ser	Glu	Leu	Ala	Leu	Ile	Thr	Gly	Lys	Phe	Phe	Ser	Phe	Phe
	145					150				_	155					160
218	Leu	Met	Pro	Gln	Val	Ser	Tyr	Ser	Ala	Ser	Met	Asp	Arg	Leu	Ser	Asp
219					165		_			170		_	_		175	-
221	Arg	Glu	Thr	Phe	Pro	Ser	Phe	Phe	Arg	Thr	Val	Pro	Ser	Asp	Arq	Val
222				180					185					190		
224	Gln	Leu	Gln	Ala	Val	Val	Thr	Leu	Leu	Gln	Asn	Phe	Ser	Trp	Asn	Trp
225			195					200					205	-		
227	Val	Ala	Ala	Leu	Gly	Ser	Asp	Asp	Asp	Tyr	Gly	Arq	Glu	Gly	Leu	Ser
228		210			-		215	-	-	-	-	220		-		
230	Ile	Phe	Ser	Gly	Leu	Ala	Asn	Ser	Arq	Gly	Ile	Cys	Ile	Ala	His	Glu
	225			_		230				•	235	-				240
233	Gly	Leu	Val	Pro	Gln	His	Asp	Thr	Ser	Gly	Gln	Gln	Leu	Gly	Lys	Val
234	_				245		-			250				^	255	
236	Val	Asp	Val	Leu	Arg	Gln	Val	Asn	Gln	Ser	Lys	Val	Gln	Val	Val	Val
237		_		260					265		* ,			270		
239	Leu	Phe	Ala	Ser	Ala	Arg	Ala	Val	Tyr	Ser	Leu	Phe	Ser	Tvr	Ser	Ile
240			275					280					285	4		
242	Leu	His	Asp	Leu	Ser	Pro	Lys	Val	Trp	Val	Ala	Ser	Glu	Ser	Trp	Leu
243		290	-				295		_			300				
245	Thr	Ser	Asp	Leu	Val	Met	Thr	Leu	Pro	Asn	Ile	Ala	Arg	Val	Glv	Thr
246			_			310					315		,		4	320
248	Val	Leu	Gly	Phe	Leu	Gln	Arq	Glv	Ala	Leu	Leu	Pro	Glu	Phe	Ser	
249			-		325		2	-		330					335	
251	Tvr	Val	Glu	Thr	Ara	Leu	Ala	Leu	Ala		Asp	Pro	Thr	Phe		Δla
252	. •			340	ر				345		1			350	-1-	
	Ser	Leu	Lvs		Glu	Leu	'Asp	Leu		Glu	Arg	Val.	Met		Pro	Ara
255		·	355	-			·F	360			5		365	1		ɔ
	Cys	Ser		Cys	Asp	Tvr	Ile		Leu	G]n	Asn	Leu		Ser	Glv	Len
258		370		- 1 -	F	- <u>,</u> -	375					380	~		<u>y</u>	
	Met		Asn	Leu	Ser	Ala		Gln	Leu	His	His		Tle	Phe	Δla	Thr
261						390	1				395					400

. RAW SEQUENCE LISTING DATE: 10/18/2004 PATENT APPLICATION: US/10/725,475 TIME: 13:37:45

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			•													
263 264	Tyr	Ala	Ala	Val	Tyr 405	Ser	Val	Ala	Gln	Ala 410	Leu	His	Asn	Thr	Leu 415	Gln
	Cvc	λan	1/2 T	Car		Cys	ціс	Thr	Cor		Dro	77-7	Cln	Dro		Cln
267				420		-			425	•				430	_	
269 270	Leu	Leu	Glu 435	Asn	Met	Tyr	Asn	Met 440	Ser	Phe	Arg	Ala	Arg 445	Asp	Leu	Thr
272	Leu	Gln	Phe	Asp	Ala	Lys	Glv	Ser	Val	Asp	Met	Glu	Tvr	Asp	Leu	Lvs
273		450					455					460				
		Trp	vaı	Trp	Gin	Ser	Pro	Thr	Pro	Val	Leu	Hıs	Thr	Val	Gly	Thr
	4 65					470					475					480
278	Phe	Asn	Gly	Thr	Leu	${\tt Gln}$	$_{ m Leu}$	Gln	His	Ser	Lys	Met	Tyr	${\tt Trp}$	Pro	Gly
279					485					490					495	
281	Asn	Gln	Val	Pro	Val	Ser	Gln	Cys	Ser	Arg	Gln	Cys	Lys	Asp	Gly	Gln
282				500					505				-	510	_	
284	Val	Ara	Ara	Val	Lvs	Gly	Phe	His	Ser	Cvs	Cvs	Tvr	Asp	Cvs	Val	Asp
285		2	515		2	2		520		- 2	-1-	-1-	525	-1 -		
	Cvs	Lvs		Glv	Ser	Tyr	Ara		His	Pro	Asn	Asn		Thr	Cvs	Thr
288	O _I U	530			DC_	- 7 -	535	_,,	1110	110	пор	540	1110	****	Cyb	¥1111
	Pro		Clv	Lare	Aen	Gln		Sar	Dro	Glu	Larg		Thr	Thr	Carc	LOU
	545	Cys	Gry	цур	тор	550	пр	PET	FIO	Gru	555	DET	1111	1111	Суб	
		7	7	D-00	Ť		T	77-	(T)	a 1		D	70 T =	77-7	т	560
	PLO	Arg	Arg	PIO	_	Phe	Leu	Ala	Trp	_	GIU	Pro	Ата	vai		ser
294	_	_	_	_	565	_	_		_	570	_		_	· -	575	<u>.</u>
	Leu	Leu	Leu		Leu	Cys	Leu	Val		GŤĀ	Leu	Thr	Leu		Ala	Leu
297				580					585					590		
299	Gly	Leu		Val	His	Tyr	Trp	Asp	Ser	Pro	Leu	Val	Gln	Ala	Ser	Gly
300			595					600					605			
302	Gly	Ser	Leu	Phe	Cys	Phe	Gly	Leu	Ile	Cys	Leu	Gly	Leu	Phe	Cys	Leu
303		610					615					620				
305	Ser	Val	Leu	Leu	Phe	Pro	Gly.	Arg	Pro	Arg	Ser	Ala	Ser	Cys	Leu	Ala
306	625					630					635					640
308	Gln	Gln	Pro	Met	Ala	His	Leu	Pro	Leu	Thr	Gly	Cys	Leu	Ser	Thr	Leu
309					645					650					655	
311	Phe	Leu	Gln	Ala	Ala	Glu	Ile	Phe	Val	Glu	Ser	Glu	Leu	Pro	Leu	Ser
312				660					665					670		•
		Ala	Asn	Trp	Leu	Cys	Ser	Tvr	Leu	Ara	Glv	Pro	Trp	Ala	Trp	Leu.
315			675			-1-		680		5	~- <u>1</u>		685			
	Val	Val		Len	Δla	Thr	T.e11		Glu	Δla	Δla	T.e.11		Δla	Trn	Tur
318	vai	690	шси	пса	711 u	1111	695	vai	OI u	1114	mu	700	Cyb	2114	111	- y -
	Lou		717	Dho	Dro	Pro		17-1	1701	Thr	7 an		Cl n	wal.	T 011	Dro
		Mec	нια	Pile			GIU	val	vai	1111	_	тгр	GIII	vai	ьец	
321		a 1	77.7	Ŧ		710	~				715		** . 7	_	_	720
	Inr	GIU	vaı	Leu		His	Cys	Arg	Met		ser	Trp	vaı	ser		GLY
324		_		_	725			_		730	_				735	
	Leu	Val	His		Thr	Asn	Ala	Val		Ala	Phe	Leu	Cys		Leu	Gly
327				740					745					750		
329	Thr	Phe	Leu	Val	Gln	Ser	Gln	Pro	Gly	Arg	Tyr	Asn	Arg	Ala	Arg	Gly
330			755					760					765			
332	Leu	Thr	Phe	Ala	Met	Leu	Ala	Tyr	Phe	Ile	Ile	Trp	Val	Ser	Phe	Val
333		770					775					780				
335	Pro	Leu	Leu	Ala	Asn	Val	Gln	Val	Ala	Tyr	Gln	Pro	Ala	Val	Gln	Met

RAW SEQUENCE LISTING ERROR SUMMARY

DATE: 10/18/2004

PATENT APPLICATION: US/10/725,475

TIME: 13:37:46

Input Set : A:\78031566.app

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; Xaa Pos. 1/3,4/,6/ Seq#:3; Xaa Pos. 1,6,4,1,9/,10,1/1,1/3,1/4,15

Seq#:13; Xaa Pos. 120,121

Seq#:15; Xaa Pos. 8,15,59,62,76,117,128,136,168,173,175,176,203,226

VERIFICATION SUMMARY

DATE: 10/18/2004

PATENT APPLICATION: US/10/725,475

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Input Set : A:\78031566.app

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L:18 M:270 C: Current Application Number differs, Replaced Current Application Number

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0

L:178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0

L:1121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:112

L:1259 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0

M:341 Repeated in SeqNo=15